

PTO/SB/21 (09-06)

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FORM**

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Total Number of Pages in This Submission

| | |
|------------------------|--------------------------|
| Application Number | 09/693,754 |
| Filing Date | 10/20/2000 |
| First Named Inventor | N. Berinstein |
| Art Unit | 1633 |
| Examiner Name | Anne Marie Sabrina Wehbe |
| Attorney Docket Number | API-02-06-US |

ENCLOSURES (Check all that apply)

| | | |
|---|--|---|
| <input type="checkbox"/> Fee Transmittal Form | <input type="checkbox"/> Drawing(s) | <input type="checkbox"/> After Allowance Communication to TC |
| <input checked="" type="checkbox"/> Fee Attached | <input type="checkbox"/> Licensing-related Papers | <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences |
| <input type="checkbox"/> Amendment/Reply | <input type="checkbox"/> Petition | <input type="checkbox"/> Appeal Communication to TC (Appeal Notice, Brief, Reply Brief) |
| <input type="checkbox"/> After Final | <input type="checkbox"/> Petition to Convert to a Provisional Application | <input type="checkbox"/> Proprietary Information |
| <input type="checkbox"/> Affidavits/declaration(s) | <input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address | <input type="checkbox"/> Status Letter |
| <input type="checkbox"/> Extension of Time Request | <input type="checkbox"/> Terminal Disclaimer | <input checked="" type="checkbox"/> Other Enclosure(s) (please identify below): |
| <input type="checkbox"/> Express Abandonment Request | <input type="checkbox"/> Request for Refund | RCE Transmittal; PTO-2038; IDS (2 pages); PTO/SB/08A and 08B |
| <input checked="" type="checkbox"/> Information Disclosure Statement | <input type="checkbox"/> CD, Number of CD(s) _____ | |
| | <input type="checkbox"/> Landscape Table on CD | |
| <input type="checkbox"/> Certified Copy of Priority Document(s) | Remarks | |
| <input type="checkbox"/> Reply to Missing Parts/Incomplete Application | A three-month extension of time to respond is requested. Form PTO-2038 is attached authorizing payment of the three-month extension fee (\$1020) and the RCE fee due under 37 CFR 1.17(e) (\$790). | |
| <input type="checkbox"/> Reply to Missing Parts under 37 CFR 1.52 or 1.53 | Submitted via U.S. Express Mail No. EQ877596983US | |

*Any other required fees may be deducted from Deposit Acct. No. 50-0244.***SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT**

| | | | |
|--------------|----------------------------------|----------|--------|
| Firm Name | Patrick J. Halloran, Ph.D., J.D. | | |
| Signature | | | |
| Printed name | Patrick J. Halloran | | |
| Date | 08/14/2007 | Reg. No. | 41,053 |

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| Typed or printed name | Patrick J. Halloran | Date | 08/07/2007 |

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PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE
(API-02-06-US)

| | | |
|----------------------------------|---|---|
| In Re Application of: |) | |
| |) | |
| Berinstein, N. |) | Examiner: Anne Marie Sabrina Wehbe |
| |) | |
| Serial No.: 09/693,754 |) | |
| |) | Group Art Unit: 1633 |
| Filing Date: 20 Oct. 2000 |) | |
| |) | |
| Title: |) | |
| |) | |
| |) | |

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

U.S. Express Mail No. EQ877596983US
Deposited Aug. 14, 2007

To the Examiner:

Applicants respectfully submit this Information Disclosure Statement, PTO/SB/08 (2 pages) and copies of the reference cited therein. This Information Disclosure Statement is in compliance with the duty of candor as set forth in 37 C.F.R. § 1.56. It is requested that the documents be given careful consideration and that they be cited of record in the prosecution history of the present application so that they will appear on the face of the patent issuing of the present application.

In the judgment of the undersigned, portions of the references may be material to the examination of the pending claims. However, the references have not been reviewed in sufficient detail to make any other representation and, in particular, no representation is intended as to the relative importance of any portion of the references. This Statement is not a representation that the cited references have effective dates early enough to be "prior art" within the meaning of 35 U.S.C. §102 or §103.

CITED REFERENCES

U.S. Patents

20070048860-A1
20040156861-A1
7,232,887B2
7,019,112B1
6,965,017B2
6,805,869B2
6,756,038B1
6,558,671B1
6,537,560B1
6,270,778B1
5,874,560
5,994,523
5,844,075

Non-U.S. Patent Documents

WO 98/04728A1
WO 99/46988A1
WO 99/46992A1


Other Documents:

Hodge, et al. 1997. *Vaccine*. 15(6/7): 759-768.
Hurpin, et al. 1998. *Vaccine*. 16(2/3): 208-215.
Kundig, et al. 1995. *Science*. 268: 1343-1347.
Lehner, et al. 1999. *Journal of Infectious Diseases*. 179 (Suppl. 3): S489-92.
Lehner, et al. 1994. *Journal of Immunology*. 153: 1858-1868.
Wira, et al. 1989. *Immunology*. 68: 24-30.
Wira, et al. 1987. *Journal of Immunology*. 138(12): 4159-4164.

Respectfully Submitted,

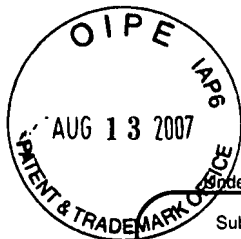
Date: August 14, 2007

By:



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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet 1

of 1

Complete if Known

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|------------------------|--------------------------|
| Application Number | 09/693,754 |
| Filing Date | 10/20/2000 |
| First Named Inventor | Berinstein, N. |
| Art Unit | 1633 |
| Examiner Name | Anne Marie Sabrina Wehbe |
| Attorney Docket Number | 13115 |

| U. S. PATENT DOCUMENTS | | | | | |
|------------------------|-----------------------|--|--------------------------------|--|---|
| Examiner Initials* | Cite No. ¹ | Document Number | Publication Date MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear |
| | | Number-Kind Code ² (if known) | | | |
| | | US- 20070048860-A1 | 03-01-2007 | Schlom, et al. | Entire Document |
| | | US- 20050136066-A1 | 06-23-2005 | Guo, Y. | Entire Document |
| | | US- 20040214995-A1 | 10-28-2004 | Kawakami, et al. | Entire Document |
| | | US- 20040156861-A1 | 08-12-2004 | Figdor, et al. | Entire Document |
| | | US- 20030144482-A1 | 07-31-2003 | Kawakami, et al. | Entire Document |
| | | US- 20020102278-A1 | 08-01-2002 | Guo, Y. | Entire Document |
| | | US- 7232887- B2 | 06-19-2007 | Kawakami, et al. | Entire Document |
| | | US- 7019112- B1 | 03-28-2006 | Slingluff, et al. | Entire Document |
| | | US- 6965017- B2 | 11-15-2005 | Kawakami, et al. | Entire Document |
| | | US- 6805869- B2 | 10-19-2004 | Guo, Y. | Entire Document |
| | | US- 6756038- B1 | 06-29-2004 | Schlom, et al. | Entire Document |
| | | US- 6558671- B1 | 05-06-2003 | Slingluff, et al. | Entire Document |
| | | US- 6537560- B1 | 03-25-2003 | Kawakami, et al. | Entire Document |
| | | US- 6270778- B1 | 08-07-2001 | Kawakami, et al. | Entire Document |
| | | US- 5874560 | 02-23-1999 | Kawakami, et al. | Entire Document |
| | | US- 5994523 | 11-30-1999 | Kawakami, et al. | Entire Document |
| | | US- 5844075 | 12-01-1998 | Kawakami, et al. | Entire Document |
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| FOREIGN PATENT DOCUMENTS | | | | | | |
|--------------------------|-----------------------|---|--------------------------------|--|---|----------------|
| Examiner Initials* | Cite No. ¹ | Foreign Patent Document | Publication Date MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear | T ⁶ |
| | | Country Code ³ -Number ⁴ -Kind Code ⁵ (if known) | | | | |
| | | WO 98/04728- A1 | 02-05-1998 | Therion Biologics Corp et | Entire Document | |
| | | WO 99/46988- A1 | 09-23-1999 | Genzyme Corp. | Entire Document | |
| | | WO 99/46992- A1 | 09-23-1999 | Genzyme Corp. | Entire Document | |
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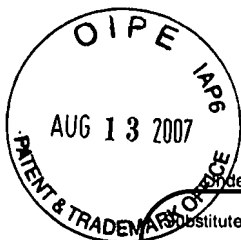
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| INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary) | | Complete if Known | |
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| | | First Named Inventor | Berinstein, N. |
| | | Art Unit | 1633 |
| | | Examiner Name | Anne Marie Sabrina Wehbe |
| Sheet 1 | of 1 | Attorney Docket Number | 13115 |

| NON PATENT LITERATURE DOCUMENTS | | | |
|---------------------------------|-----------------------|---|----------------|
| Examiner Initials* | Cite No. ¹ | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. | T ² |
| | | HODGE, et al., Vaccine, 1997, 15(6/7): 759-768 | |
| | | HURPIN, et al., Vaccine, 1998, 16(2/3): 208-215 | |
| | | KUNDIG, et al., Science, 1995, 268: 1343-1347 | |
| | | LEHNER, et al., J. Inf. Diseases, 1999, 179(Suppl. 3): S489-92 | |
| | | LEHNER, et al., J. Immunol., 1994, 153: 1858-1868 | |
| | | WIRA, et al., J. Immunol., 1989, 68: 24-30 | |
| | | WIRA, et al., J. Immunol., 1987, 138: 4159-4164 | |
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